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(Mechanics--Aerodynamics, TT, v. 11, no. 11)

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II. NASA-TT-F-195
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NASA TT F-195 (N220630)

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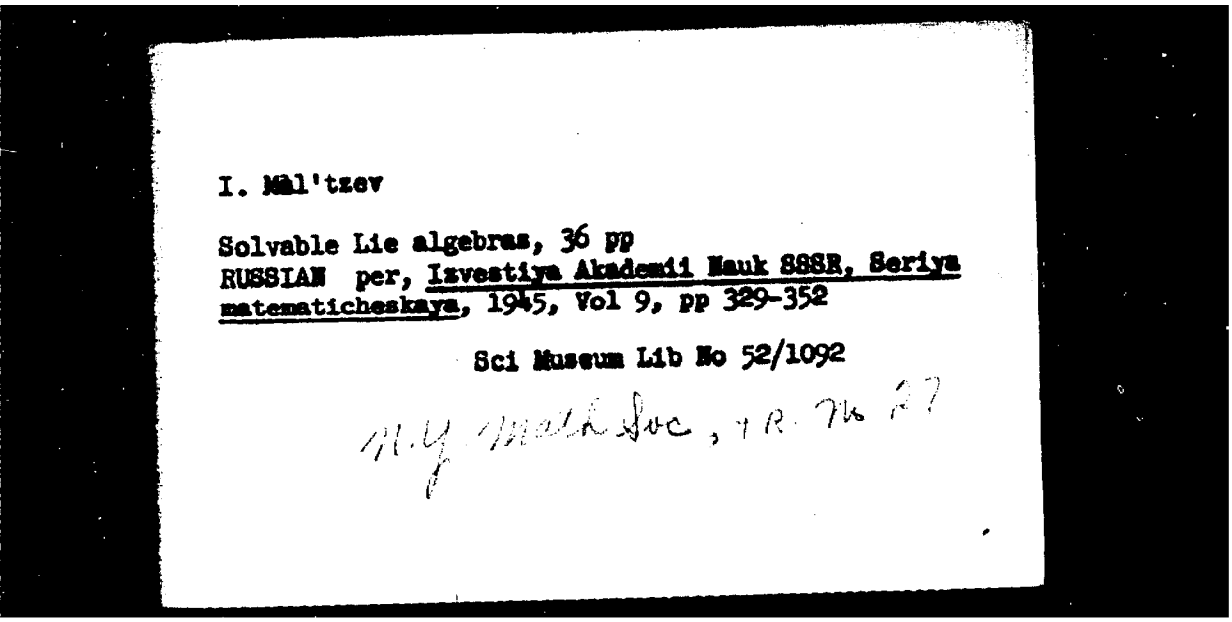

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"Development Trends of Soviet Mathematics"

M. A. Lavrent'yev

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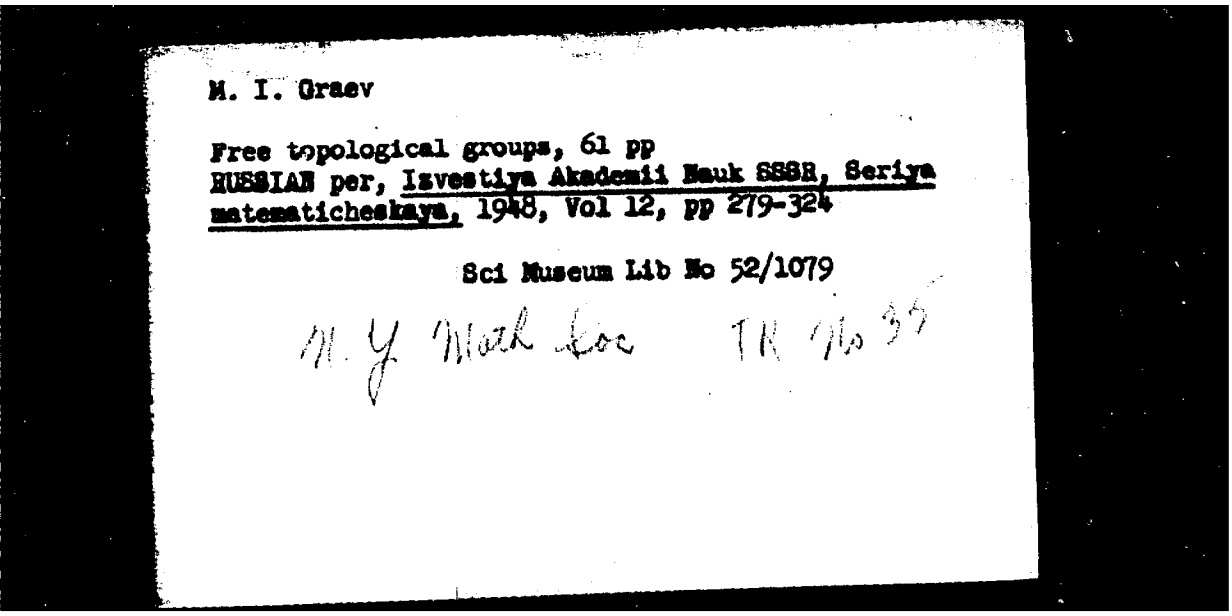

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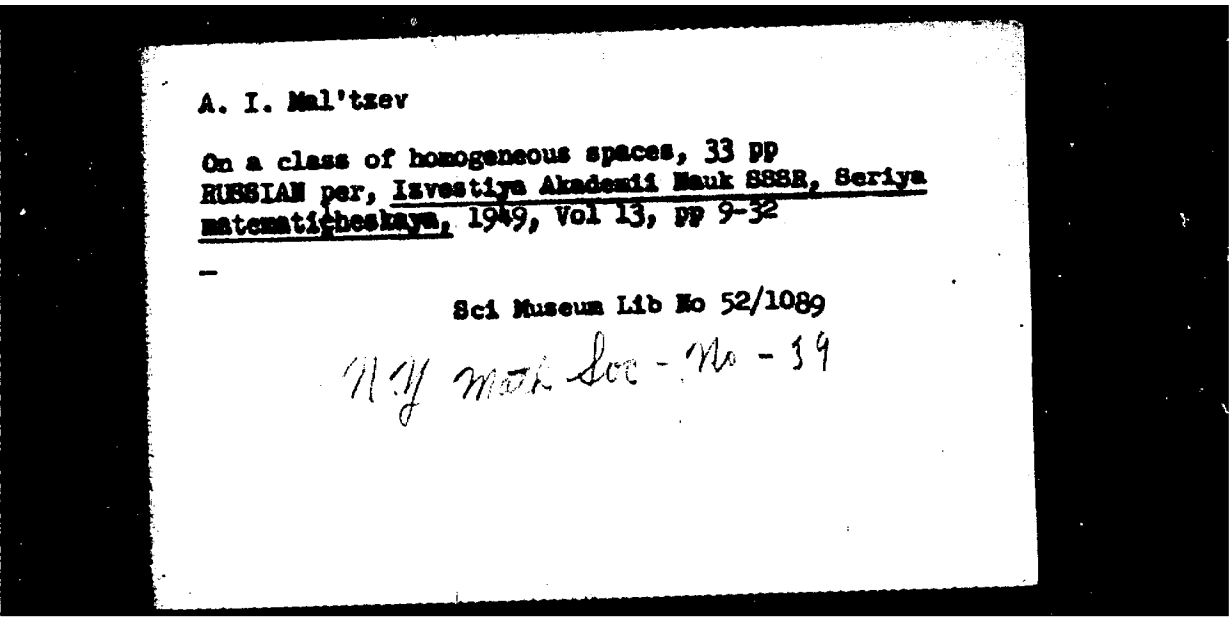

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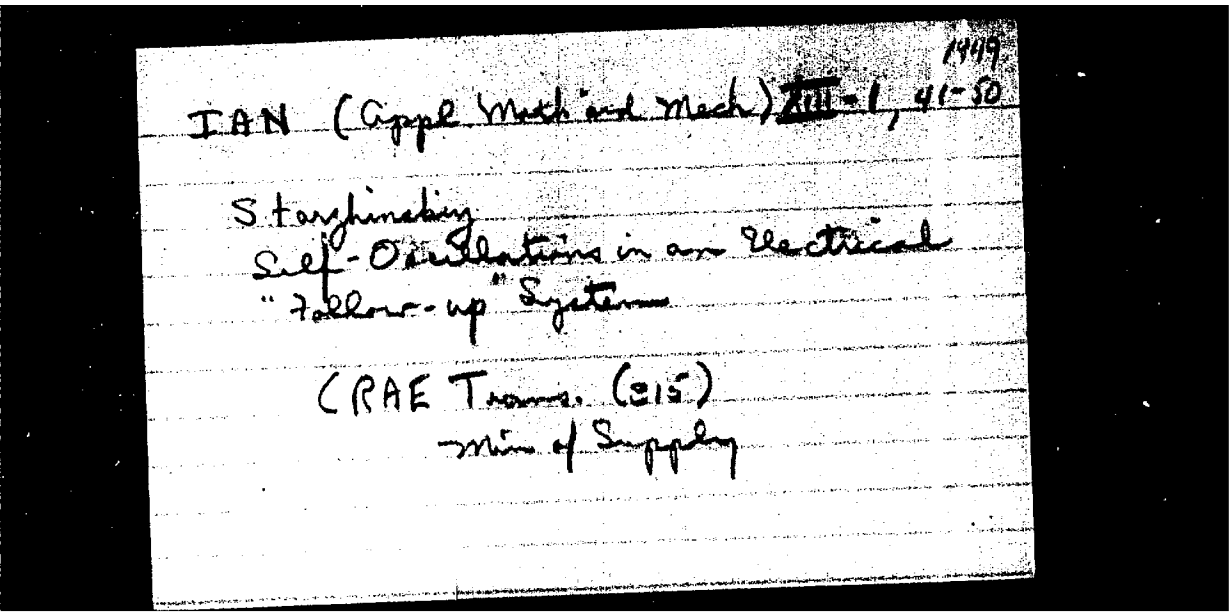

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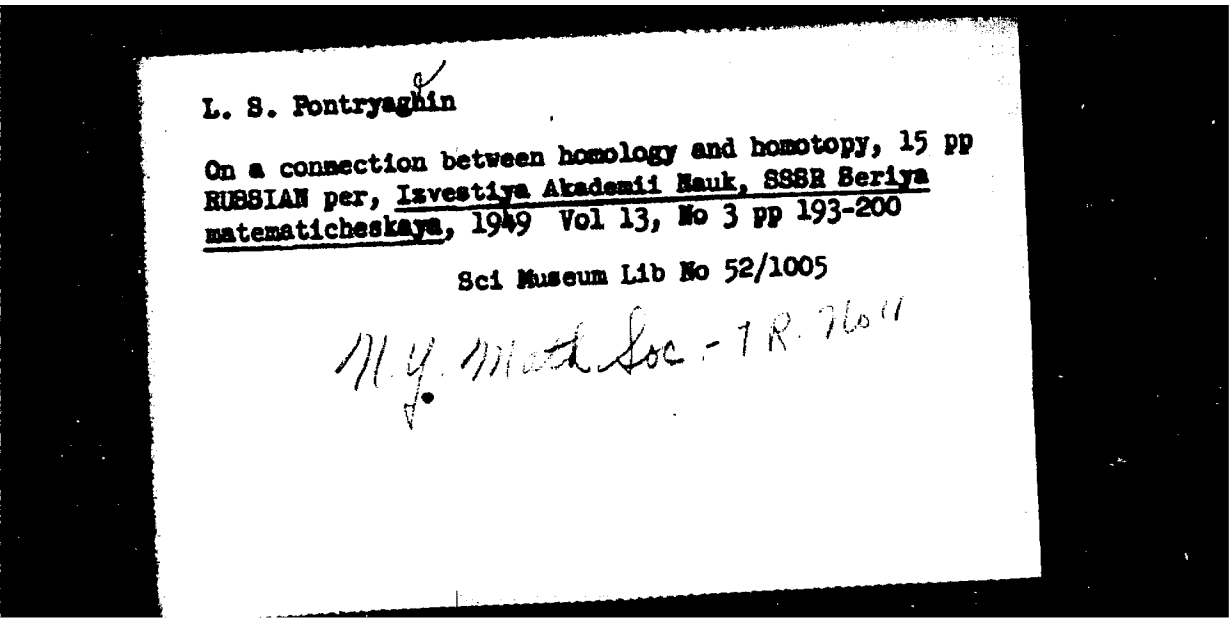

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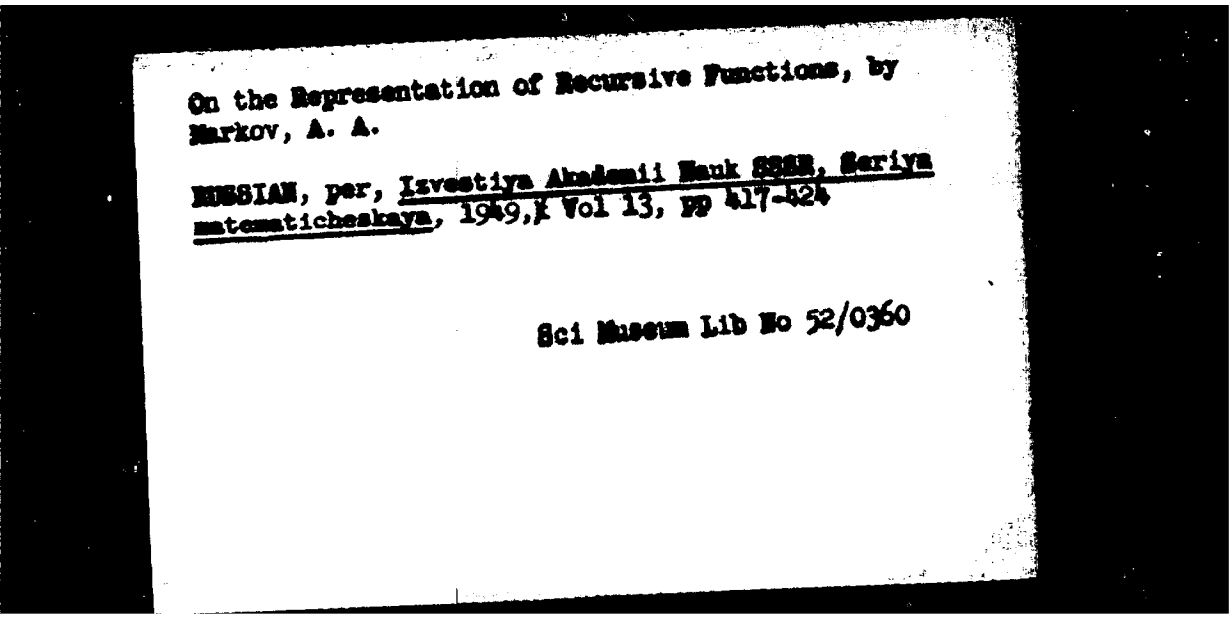

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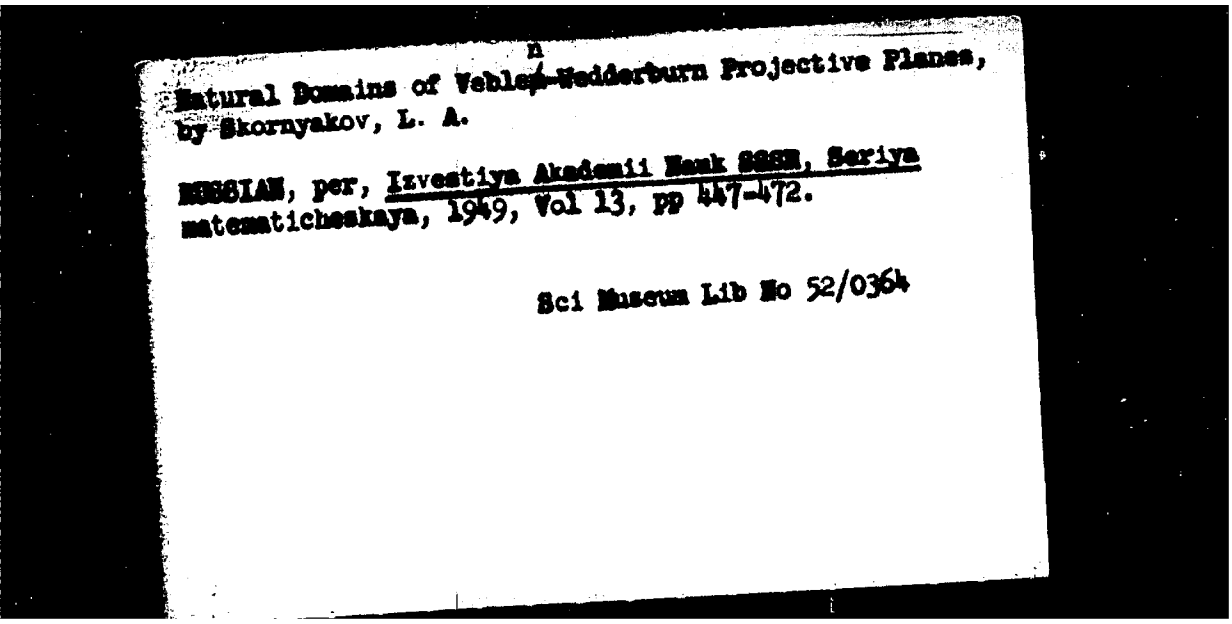

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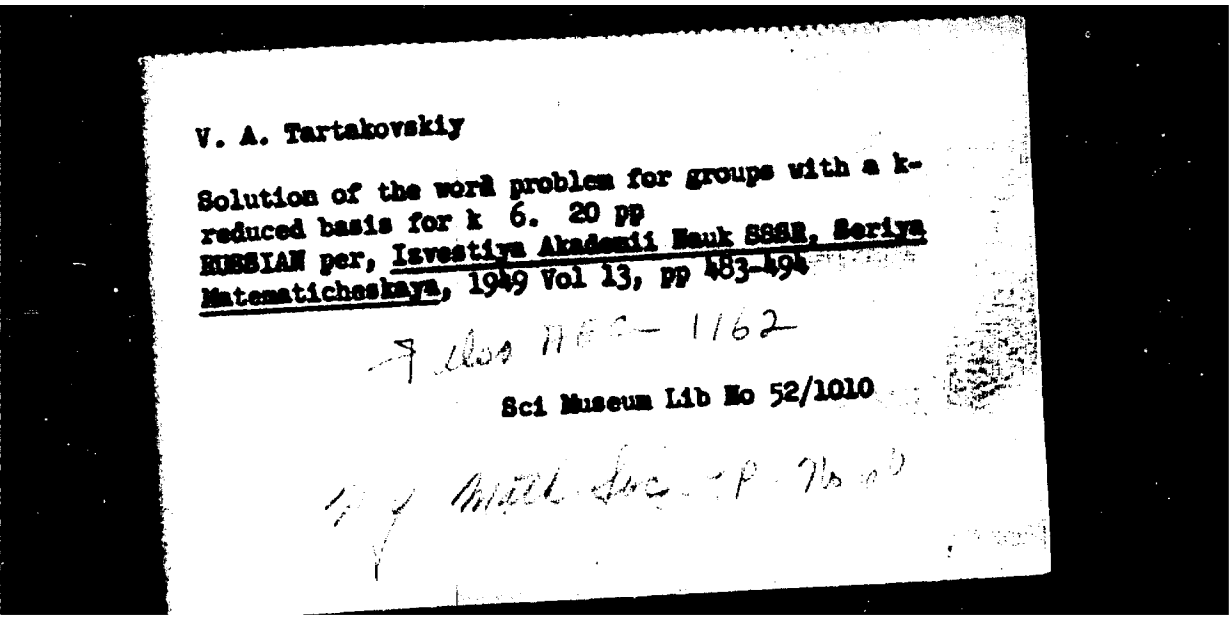

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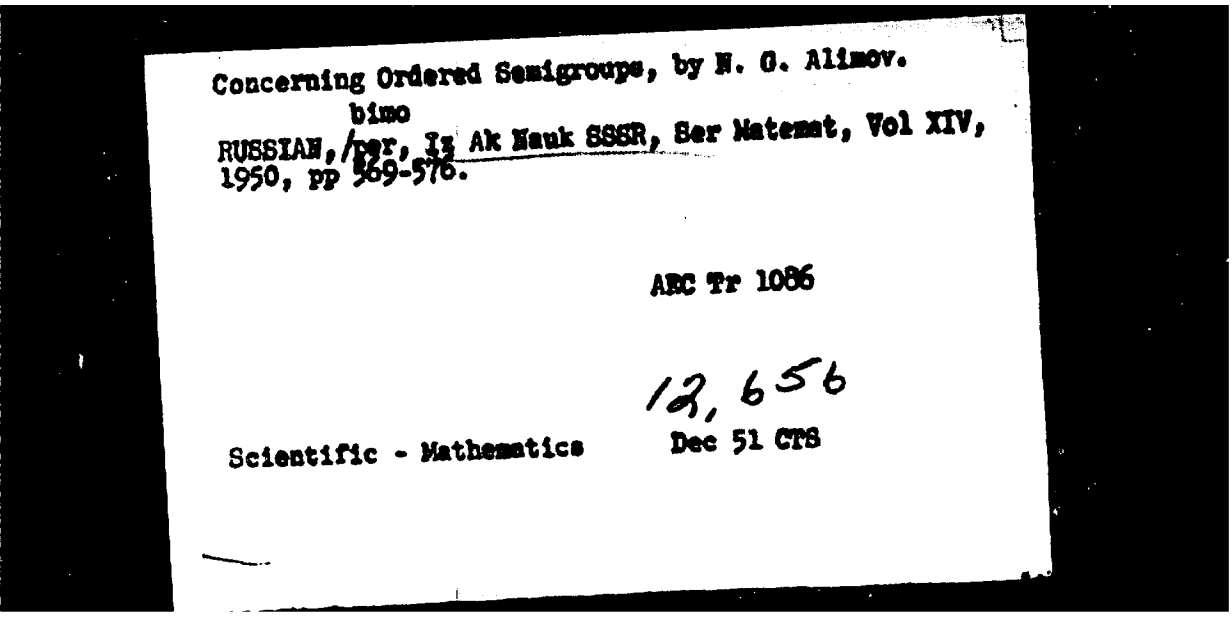

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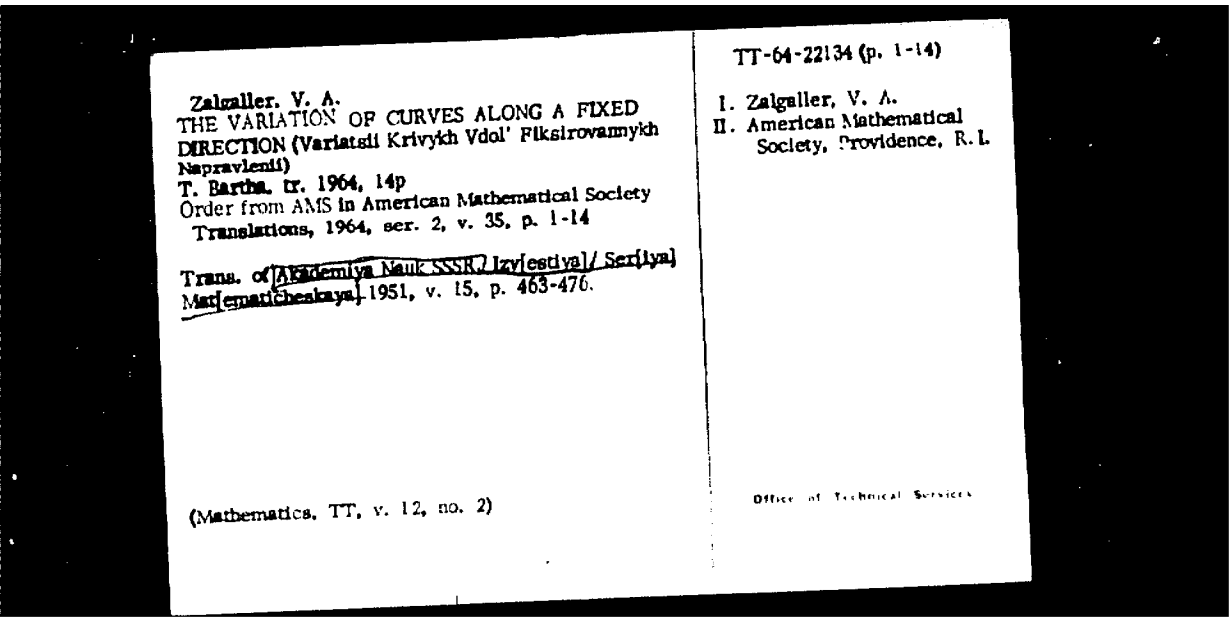

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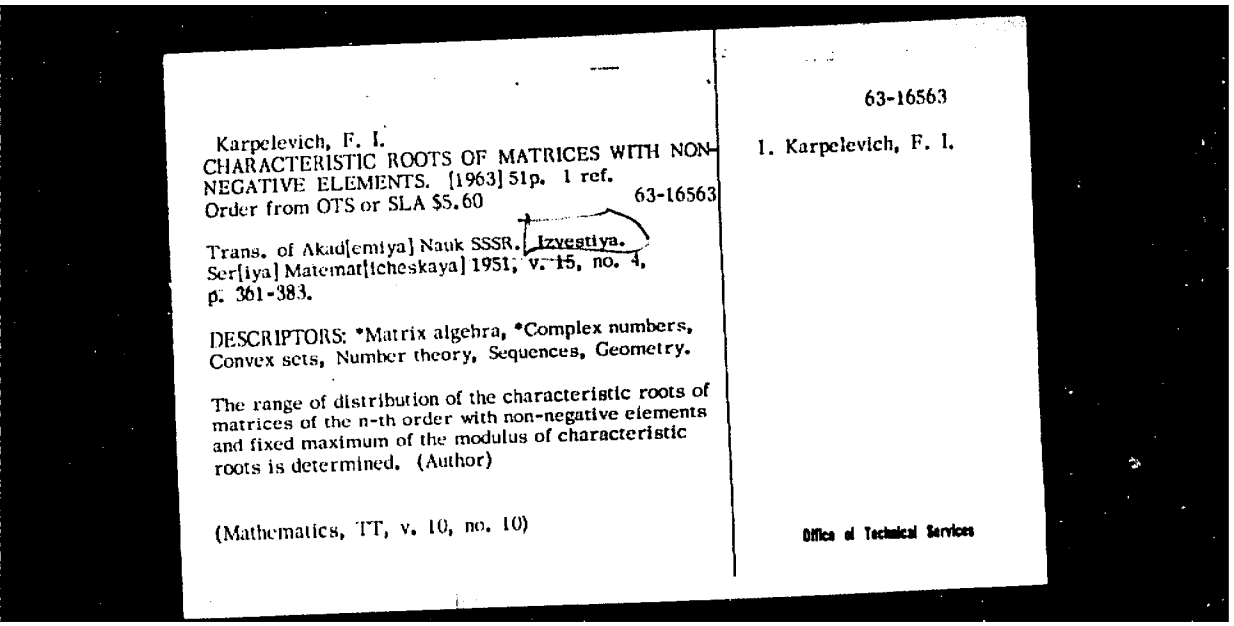

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Order from OTS or SLA $5.60 63-16563

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DESCRIPTORS: *Matrix algebra, *Complex numbers, Convex sets, Number theory, Sequences, Geometry.

The range of distribution of the characteristic roots of matrices of the n-th order with non-negative elements and fixed maximum of the modulus of characteristic roots is determined. (Author)

(Mathematics, TT, v. 10, no. 10)

63-16563

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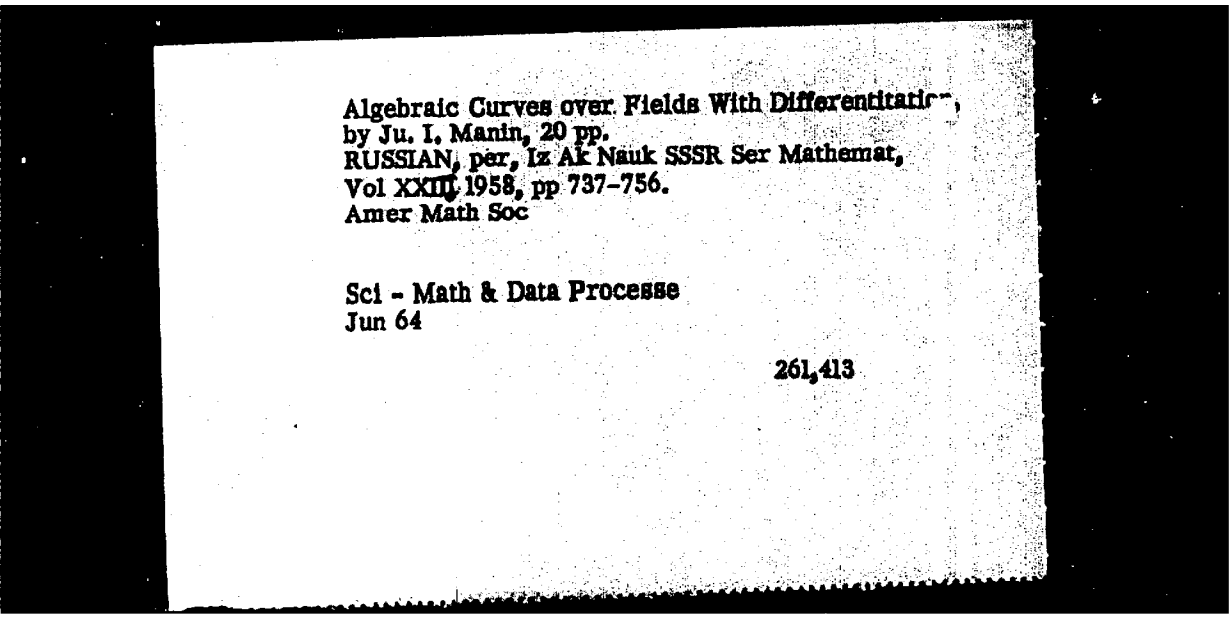

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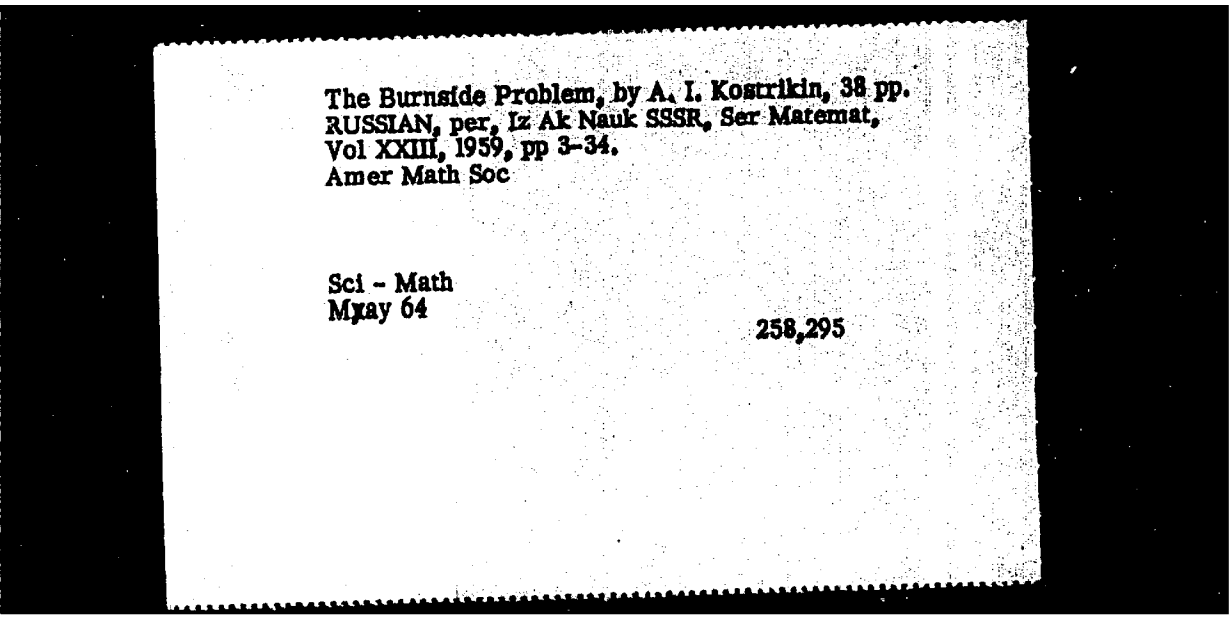

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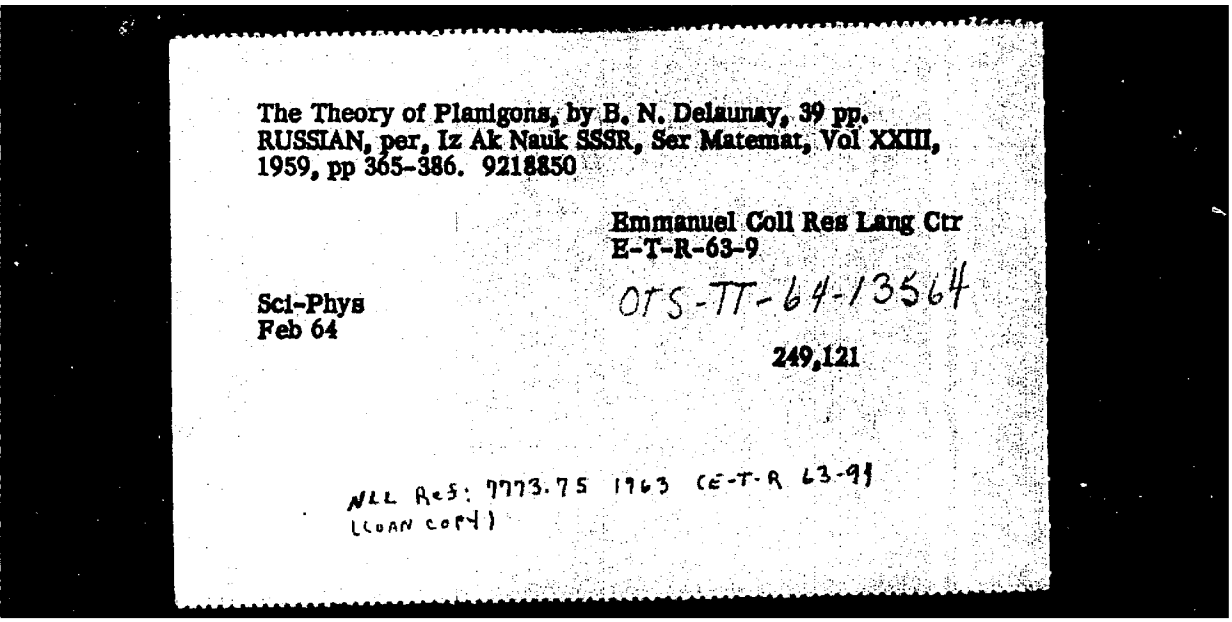

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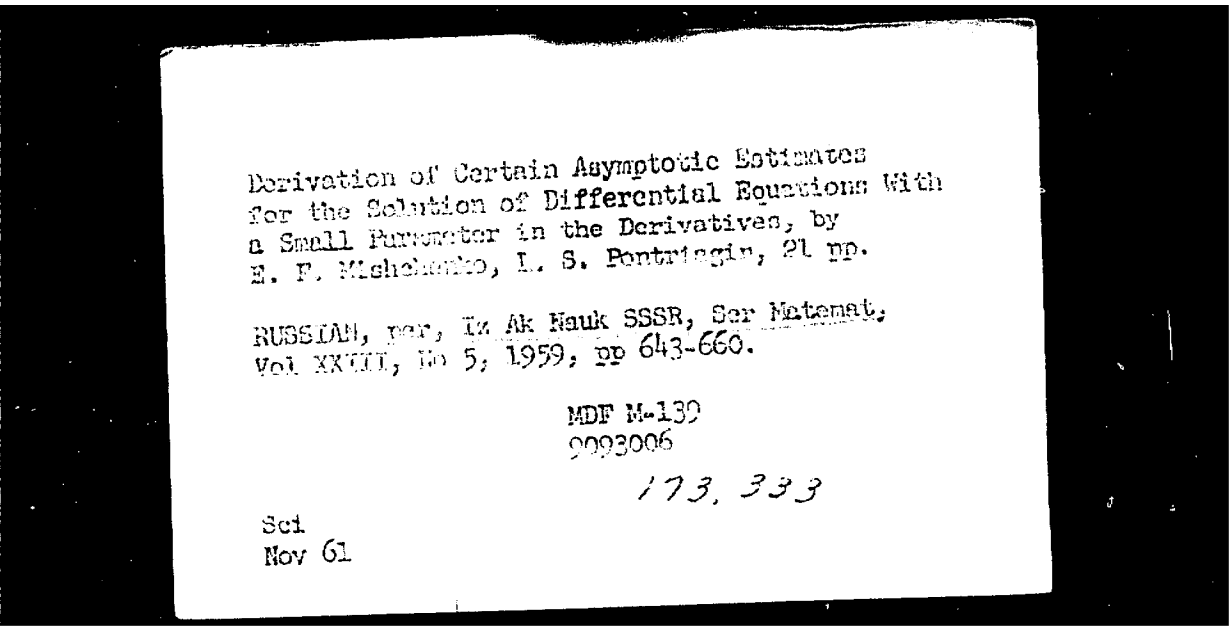

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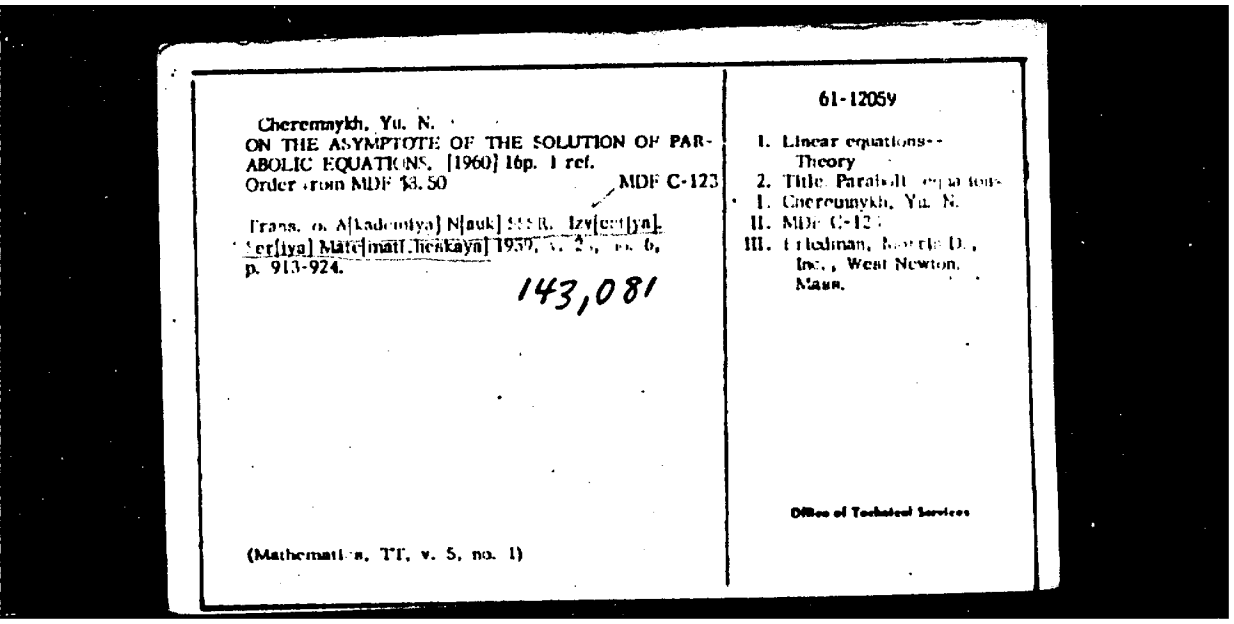

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THE AVERAGING IN SYSTEMS OF ORDINARY DIFFERENTIAL EQUATIONS WITH RAPIDLY OSCILLATING SOLUTIONS. [1961] [37]p. 6 refs.
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DESCRIPTORS: *Differential equations, Complex variables, Numerical analysis.

A system of ordinary differential equations is discussed, where the derivatives of the "rapidly-oscillating" variables are included with a small parameter, ε. "Averaged" equations are introduced, which describe, approximately, the variation of the slowly varying variables. It is shown that, as $\varepsilon \to 0$, these variables, computed from the initial system of dif-
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